

Amendments to the Claims:

The following listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently amended) A green-emitting LED which is designed as a luminescence conversion LED, comprising:

a primary radiation source, which is a chip emitting a primary radiation in the UV or blue radiation region; and

a layer of a phosphor which is arranged in front of the primary radiation source and completely or partially converts the primary radiation of the chip into a green emission of dominant wavelength $\lambda_{\text{dom}} = 550$ to 570 nm;

wherein the phosphor belongs to a class of oxynitridosilicates, having a cation M and an empirical formula $M_{(1-c)}\text{Si}_2\text{O}_2\text{N}_2:\text{D}_c$, where D denotes a doping with divalent europium and where M comprises Sr as a constituent and $M = \text{Sr}$ alone or $M = \text{Sr}_{(1-x-y)}\text{Ba}_y\text{Ca}_x$ with $0 \leq x+y < 0.5$ is used, the oxynitridosilicates completely or predominantly comprising a high-temperature-stable modification HT, and the phosphor comprises less than 100 ppm tungsten impurity and less than 100 ppm cobalt impurity.

2. (Previously Presented) The LED as claimed in claim 1, wherein the Eu fraction makes up between 0.1 and 20 mol% of M.

3. (Previously Presented) The LED as claimed in claim 1, wherein Sr represents a majority of M and a proportion of M is replaced by Ba and/or Ca.

4. (Previously Presented) The LED as claimed in claim 1, wherein a proportion of M is replaced by Li and/or La and/or Zn.

5. (Previously Presented) The LED as claimed in claim 1, wherein part of an SiN group in the oxynitridosilicates of formula $\text{MSi}_2\text{O}_2\text{N}_2$ is replaced by an AlO group.

6. (Previously Presented) The LED as claimed in claim 1, wherein a proportion of Eu is replaced by Mn.

7. (Previously Presented) The LED as claimed in claim 1, wherein the primary radiation has a peak wavelength in the range from 380 to 430 nm.

8. (Previously Presented) The LED as claimed in claim 1, wherein the green emission has a dominant wavelength in the range from 556 to 564 nm.

9. (Previously Presented) The LED as claimed in claim 1, wherein the primary radiation is completely converted.

10. (Previously Presented) The LED as claimed in claim 1, wherein the chip is an InGaN chip with a peak emission wavelength in the range from 430 to 465 nm.

11. (Previously Presented) The LED as claimed in claim 1, wherein the LED is dimmable.

12. (Previously Presented) The LED as claimed in claim 3, wherein 30 mol% of M is replaced by Ba and/or Ca.

13. (Previously Presented) The LED as claimed in claim 4, wherein up to 30 mol% of M is replaced by Li and/or La and/or Zn.

14. (Previously Presented) The LED as claimed in claim 5, wherein up to 30 mol% of the SiN group is replaced by the AlO group.

15. (Previously Presented) The LED as claimed in claim 6, wherein up to 30 mol% of Eu is replaced by Mn.

16. (Previously Presented) The LED as claimed in claim 1, wherein a primary radiation has a peak wavelength of at least 380 nm.

17. (Cancelled).